

AMENDMENTS TO THE CLAIMS

1. (Currently amended) An integrated circuit for supplying power, comprising:

an IC chip having a rectangular shape and having a first edge and a second edge opposite the first edge;

a switching regulator implemented on said IC chip and having a driver transistor whose ON time of switching is controlled to adjust an output voltage of said switching regulator; and

a series regulator implemented on said IC chip, wherein said driver transistor of said switching regulator is positioned near the first edge and said series regulator is positioned near the second edge,

wherein said series regulator and said driver transistor of said switching regulator are separated by a predetermined distance, and

wherein said driver transistor of said switching regulator and said series regulator are positioned near opposite corners of said IC chip on a diagonal line of said IC chip.

2 . (Original) The integrated circuit as claimed in claim 1, wherein said series regulator includes a driver transistor whose conductivity of an ON state is controlled to adjust an output voltage of said series regulator.

3 . (Original) The integrated circuit as claimed in claim 1, wherein said series regulator supplies power to a high-frequency circuit.

4. (Original) The integrated circuit as claimed in claim 1, wherein said switching regulator and said series regulator receive a positive power supply voltage through respective different pads.

5. (Original) The integrated circuit as claimed in claim 1, wherein said switching regulator and said series regulator receive a negative power supply voltage through respective different pads

6. (Original) The integrated circuit as claimed in claim 1, further comprising additional circuitry situated between said driver transistor of said switching regulator and said series regulator.

Claims 7-8 (Canceled)

9. (Original) The integrated circuit as claimed in claim 1, wherein said switching regulator functions as a DC-DC converter of a synchronous detection type.

10. (Currently amended) A communication apparatus, comprising:

an IC chip having a rectangular shape and having a first edge and a second edge opposite the first edge;

a switching regulator implemented on said IC chip and having a driver transistor whose ON time of switching is controlled to adjust an output voltage of said switching regulator;

a plurality of series regulators implemented on said IC chip, wherein said driver transistor of said switching regulator is positioned near the first

edge and said plurality of series regulators are positioned near the second edge;
and

a RF circuit unit including a transceiver for radio communication,

wherein said driver transistor of said switching regulator and said plurality of series regulators are positioned near opposite corners of said IC chip on a diagonal line of said IC chip.

11. (Previously presented) The communication apparatus as claimed in claim 10, wherein at least one of said plurality of series regulators supplies power to said RF circuit.

12. (Previously presented) The communication apparatus as claimed in claim 10, wherein said switching regulator and at least one of said plurality of series regulators receive a positive power supply voltage through respective different pads.

13. (Previously presented) The communication apparatus as claimed in claim 10, wherein said switching regulator and at least one of said plurality of series regulators receive a negative power supply voltage through respective different pads.

14. (Previously presented) The communication apparatus as claimed in claim 10, further comprising additional circuitry situated between said driver transistor of said switching regulator and said plurality of series regulators.

Claims 15-16 (Canceled)

17. (Original) The communication apparatus as claimed in claim 10, wherein said switching regulator functions as a DC-DC converter of a synchronous detection type.